

- ~~52.~~ 7 (New) The isolated polypeptide of claim ~~51~~⁶, which consists essentially of a fusion between the CDR3 region and a CDR2 region of said heavy chain antibody.
- ~~53.~~ 8 (New) The isolated polypeptide of claim ~~45~~¹, which comprises at most 100 amino acids.
- ~~54.~~ 9 (New) The isolated polypeptide of claim ~~53~~⁸, which comprises from 3 to 60 amino acids.
- ~~55.~~ 10 (New) The isolated polypeptide of claim ~~53~~⁸, which comprises from 3 to 30 amino acids.
56. (New) The isolated polypeptide of claim 46, wherein said antibody fragment is a fragment of a penetrating antibody.
57. (New) The isolated polypeptide of claim 56, wherein said penetrating antibody is a polyreactive antibody.
58. (New) The isolated polypeptide of claim 56, wherein said penetrating antibody is an anti-DNA antibody.
- ~~59.~~ 89 (New) The isolated polypeptide of claim 56, which comprises a sequence selected from the group consisting of SEQ ID NO: 1, amino acids 2-17 of SEQ ID NO:1, amino acids 3-17 of SEQ ID NO:1, amino acids 4-17 of SEQ ID NO:1, SEQ ID NO: 2, amino acids 2-17 of SEQ ID NO:2, amino acids 3-17 of SEQ ID NO:2, amino acids 4-17 of SEQ ID NO:2, SEQ ID NO: 3, amino acids 2-17 of SEQ ID NO:3, amino acids 3-17 of SEQ ID NO:3, amino acids 4-17 of SEQ ID NO:3, SEQ ID NO: 8, and a functional homologue thereof.
60. (New) The isolated polypeptide of claim 45, which further comprises a basic amino acid region.

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61. (New) The isolated polypeptide of claim ~~60~~, wherein said basic amino acid is lysine.

62. (New) The isolated polypeptide of claim 45, wherein the amino acid sequence is obtained by screening a peptide library for a cell penetration activity.

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63. (New) The isolated polypeptide claim 45, wherein said polypeptide reacts *in vitro* with one or more macromolecules selected the group consisting of anionic macromolecules, double-stranded RNA, single-stranded RNA, DNA, cationic macromolecules and histones.

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64. (New) The isolated polypeptide of claim ~~45~~, which reacts *in vitro* with heparin and heparin sulphate.

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65. (New) An isolated polypeptide, comprising a polylysine region and a region derived from a penetrating polyreactive antibody, wherein the isolated polypeptide penetrates into a cell.

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66. (New) The isolated polypeptide claim 64, wherein said polypeptide reacts *in vitro* with one or more macromolecules selected the group consisting of anionic macromolecules, double-stranded RNA, single-stranded RNA, DNA, cationic macromolecules and histones.

67. (New) The isolated polypeptide of claim 45, which reacts *in vitro* with heparin and heparin sulphate.